

PROJECT DESCRIPTION

GENERAL

THIS PORTION OF THE PROJECT INVOLVES THE MODIFICATION OF THE TRAFFIC SIGNAL AT MD 140 (BALTIMORE BOULEVARD) AND MD 97 (MALCOLM DRIVE) IN CARROLL COUNTY, DUE TO THE SAFETY AND RESURFACING PROJECT ALONG MD 140. THE PRESENCE DETECTION LOOPS ON THE EAST- WEST- AND SOUTHBOUND APPROACHES WILL BE REPLACED. NON-INVASIVE MICROLOOP PROBES WILL BE INSTALLED FOR SET BACK DETECTION ALONG MD 140. ALSO, THE SAMPLING LOOPS ALONG MD 140 WILL BE REPLACED. MD 140 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL CONTINUE TO OPERATE IN A NEMA SIX-PHASE, FULL-TRAFFIC-ACTUATED MODE.

CONTROLLER REQUIREMENTS

THE EXISTING BASE MOUNTED CABINET, CONTROLLER, EQUIPMENT AND ASSOCIATED HARNESSES SHALL REMAIN.

PHONE DROP

THE EXISTING PHONE DROP SHALL REMAIN.

THE CONTACT PERSONS FOR DISTRICT #7 ARE AS FOLLOWS:

Mr. John Concannon  
Assistant District Engineer - Traffic  
Phone: 301-624-8140/8141

Ms. Andrea Abend  
District Utilities Engineer  
Phone: 301-624-8105/8116

Mr. Raymond Johnson  
Assistant District Engineer - Maintenance  
Phone: 301-624-8105/8106

Mr. Richard L. Daff Sr.  
Chief, Traffic Operations Division  
Phone: 410-787-7630

Mr. Edward Rodenhizer  
Chief, SHA Signal Shop  
Phone: 410-787-7650

The Power Company is:  
Baltimore Gas and Electric Company  
7317 Parkway Drive South  
Hanover, Md 21076  
Phone: 410-859-9062

EQUIPMENT LIST 'A'

EQUIPMENT TO BE FURNISHED BY THE SHA.

CATEGORY CODE	QUANTITY	DESCRIPTION
973023	22 SF	SHEET ALUMINUM SIGNS: 2 EA - D-3(1) (96 IN. x 16 IN.) BALTIMORE BLVD, DUAL FACED

EQUIPMENT LIST 'C'

EQUIPMENT TO BE REMOVED AND RETURNED TO SHA.

CATEGORY CODE	QUANTITY	DESCRIPTION
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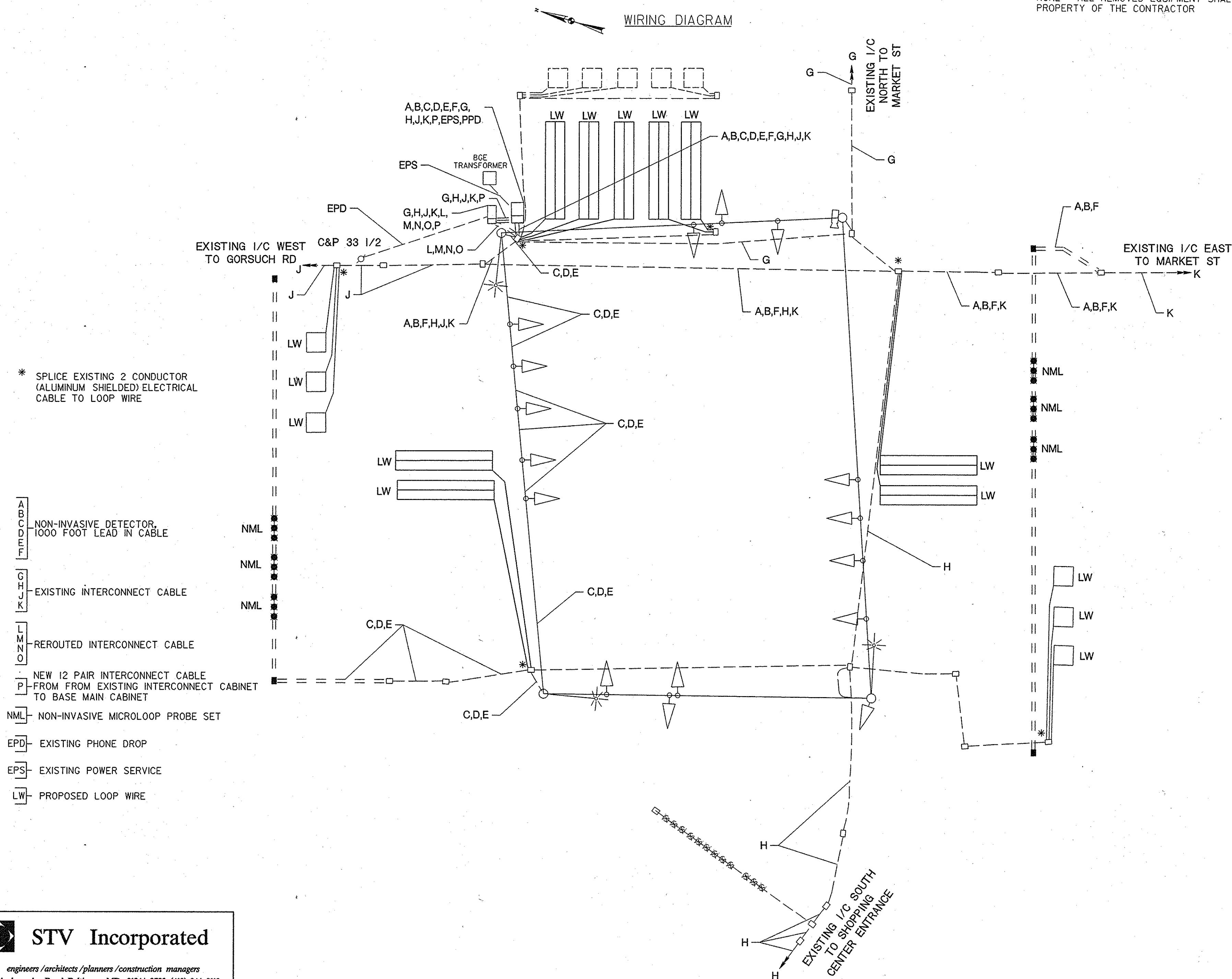
NONE - ALL REMOVED EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR

EQUIPMENT LIST 'B'

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

CATEGORY CODE	QUANTITY	DESCRIPTION
120500	1 LS	MAINTENANCE OF TRAFFIC
585625	275 LF	24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
800000	1 LS	REMOVE AND DISPOSE OF EXISTING TRAFFIC SIGNAL EQUIPMENT
800000	60 LF	PULL BACK AND REROUTE 12-PAIR COMMUNICATION CABLE
805135	130 LF	3 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
805140	15 LF	4 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
805150	285 LF	3 INCH SCHEDULE 80 RIGID PVC CONDUIT-SLOTTED
805160	75 LF	1 INCH LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
810605	6 EA	NON-INVASIVE DETECTOR, 1000 FOOT LEAD IN CABLE
811001	4 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
813015	22 SF	INSTALL OVERHEAD SIGN
822002	15 LF	12-PAIR COMMUNICATION CABLE, JELLYFILLED (UNDERGROUND)
862101	4,400 LF	LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 AWG)
862102	1,625 LF	SAW CUT FOR SIGNAL (LOOP DETECTOR)

WIRING DIAGRAM



PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
PHASE 1 AND 5	G	G	R	R	G	G	R	R	R	R	R	R	R	R	R	R	
1 AND 5 CHANGE TO 1 AND 6, 2 AND 5, OR 2 AND 6																	
PHASE 1 AND 6	G	G	G	G	R	R	R	R	R	R	R	R	R	R	R	R	
1 CHANGE	Y	Y	G	G	R	R	R	R	R	R	R	R	R	R	R	R	
PHASE 2 AND 5	R	R	R	R	G	G	G	G	R	R	R	R	R	R	R	R	
5 CHANGE	R	R	R	R	Y	Y	G	G	G	R	R	R	R	R	R	R	
PHASE 2 AND 6	R	R	G	G	R	R	G	G	R	R	R	R	R	R	R	R	
2 AND 6 CHANGE	R	R	Y	Y	R	R	Y	Y	Y	R	R	R	R	R	R	R	
PHASE 3	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	G	
PHASE 3 CHANGE	R	R	R	R	R	R	R	R	R	R	R	R	R	Y	Y	Y	
PHASE 4	R	R	R	R	R	R	R	R	R	G	G	G	G	R	R	R	
PHASE 4 CHANGE	R	R	R	R	R	R	R	R	R	Y	Y	Y	Y	Y	R	R	
FLASHING OPERATION	FL/RA	FL/RA	FL/Y	FL/Y	FL/RA	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	

SHA

STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION

MD 140 (BALTIMORE BOULEVARD) AT MD 97 (MALCOLM DRIVE)

GENERAL INFORMATION

SCALE NONE ADVERTISED DATE 11/2008 CONTRACT NO. CL3365177

DESIGNED BY VGN COUNTY CARROLL  
DRAWN BY CCW LOGMILE 080014008.00  
CHECKED BY BAB CSW TMS NO. 1-344  
F.A.P. NO. SEE TITLE SHEET TOD NO.

TS NO. 1650-GI DRAWING SG- 2 OF 9 SHEET NO. OF

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7125 Ambassador Road Baltimore, MD 21244-2722 (410) 944-9112